

an inch long. My speculations had ranged from the pedunculated eggs of *Chrysopæ* to the pedicelled cocoons of *Apanteles formosus*, figured in this magazine (I think; at least it is so in Marshall's Brit. Braconidæ). I have kept a great many of these objects, but invariably failed to obtain aught from them till the present year, in the spring of which I brought in another. Through its thin shell four eggs were distinctly visible on May 27th; spiders' legs became apparent within these eggs on July 1st; and between 10th and 17th of that month I had the satisfaction of breeding thence four spotted-legged young spiders. Mr. Hirst informs me that the spider is *Ero thoracica*, Wid. There are similar sacs, from Wimbledon, in the British Museum.

(To be continued.)

## NEW SPECIES OF GEOMETRIDÆ FROM FORMOSA.

BY A. E. WILEMAN, F.E.S.

(Continued from 1915, p. 283.)

### *Triphosa rantaizanensis*, sp. n.

♂. Head, thorax, and abdomen pale brown mixed with darker; anal tuft of abdomen pale. Fore wings pale brown, powdered with darker brown and marked on the costa with blackish-brown; sub-basal line blackish-brown, double, wavy; antemedial base blackish-brown, only distinct on the costa, median nervule, and dorsum; discoidal spot black; postmedial band blackish-brown, inner edge wavy, outer edge highly sinuous, contracted between veins 4-5, and narrowed before dorsum; the costal portion of postmedial band outwardly bordered by a slender pale brown line, and traversed near outer edge by a pale brown wavy line; veins on terminal area marked with black and pale brown; a blackish-brown square spot on costa before apex; terminal line blackish, crenulate; fringes dark brown, paler at bases and tips. Hind wings pale brown powdered with darker; veins dark, dotted with pale brown; terminal line blackish, crenulate, indistinct; fringes dark brown, inclining to reddish in certain lights, paler at base and tips. Under side pale fuscous brown; all the wings have a black discoidal dot, and the veins on terminal area are dotted with pale brown; the postmedial band of fore wings faintly reproduced, but the edges more even in contour; the hind wings have two dusky wavy lines beyond the middle.

Expanse, 42 millim.

Collection number, 182

A male specimen from Rantaizan, May 10th, 1909 (7500 ft.). In the British Museum there is a specimen, also from Rantaizan (Wileman).

### *Collix griseipalpis*, sp. n.

♂. Palpi grey brown, third joint darker tipped with white; head and thorax light brown, collar and patagia paler edged;

abdomen light brown, paler beneath. Fore wings light brown, shaded with darker brown between the transverse lines; subbasal line black, sinuous; antemedial line black, incurved before the conspicuous black discoidal mark, oblique and interrupted below the cell; postmedial line darker brown, black marked on the veins, angled below costa, curved round end of cell, thence oblique to dorsum; subterminal line formed of white dots, almost parallel with termen; terminal line black, dotted with white at ends of the veins; fringes dark brown. Hind wings light brown shaded with darker between the transverse lines, venation dotted with pale brown on the darker shading; antemedial line black, sinuous; postmedial line darker brown, marked with black on the veins; subterminal line composed of white dots between the veins; terminal line black, crenulate, dotted with white at ends of the veins, fringes dark brown. Under side of fore wings whitish, fuscous on margins; discoidal spot black, of large size, followed by a transverse series of seven black spots, of which 1-3 and 5-6 are confluent; subterminal band dusky, interrupted by the veins, especially 3 and 4: hind wings whitish, markings similar to those on the fore wings.

♀. Similar, but rather paler in colour, and the black transverse markings are indistinct.

Expanse, 38 millim. ♂; 33 millim. ♀.

Collection number, 815.

An example of each sex from Kanshirei, May, 1906.

Allied to *C. rufipalpis*, Hampson.

*Trichopterigia rubripuncta*, sp. n.

♀. Head and thorax greyish white, tinged with olive, the thorax marked with crimson; abdomen whitish with dark grey, except on the apical segments, which have four blackish spots on them. Fore wings whitish sprinkled and striated with olive, costa and veins minutely dotted with black; subbasal line black, excurved, indented above dorsum; antemedial line olive, spotted with crimson above dorsum and the median nervure; postmedial line crimson, wavy and irregular, not reaching the costa, inwardly edged by patches of scattered crimson scales above and below end of cell; subterminal line olive, wavy, outwardly bordered by crimson spots at costa, end of cell, and dorsum; terminal line represented by black dots—one on either side of each vein; fringes greyish, white towards tips. Hind wings silky white, terminal line blackish, minutely dotted with black. Under side white; fore wings freckled with fuscous, subbasal and subterminal lines indicated in fuscous.

Expanse, 36 millim.

Collection number, 1891.

A female specimen from Arizan, August, 1908.

Allied to *T. costipunctaria*, Leech.

*Venusia lineata*, sp. n.

♂. Head whitish grey, face pale brown, antennæ bipectinated; thorax whitish grey, brownish tinged above; abdomen whitish grey, tinged with brownish on middle of each segment. Fore wings

whitish with several brownish wavy transverse lines; subbasal and medial lines dotted with darker, the medial bluntly angled below costa; postmedial line only distinct towards the costa where it is black, and the space between it and the brown line beyond is tinged with brown; discoidal mark black, linear, outwardly oblique. Hind wings whitish. Under side whitish, showing the stronger markings of the upper side.

Expanse, 33 millim.

Collection number, 1699.

A male specimen from Rantaizan, May, 1909.

*Calletera basipuncta*, sp. n.

♂. Head and thorax whitish brown; abdomen paler. Fore wings whitish sprinkled, and on basal and terminal areas clouded with fuscous brown, costa pale brown; a black dot at base and one below it on the dorsum; antemedial line brownish, indistinct, angled and dotted with blackish near costa; medial line brown, nearly straight; postmedial line brown, interrupted, almost parallel with medial, black on dorsum, followed by two black dots; subterminal line pale, wavy; terminal line black, slender, with black dots on it. Hind wings whitish sprinkled and clouded with fuscous brown; antemedial and postmedial lines brown, almost parallel; terminal dots black. Under side whitish: fore wings freckled with brown, discoidal spot and two transverse lines brown, the first line bent about middle, the second line straight, preceded by brown dots on the veins and shaded with brown towards dorsum: hind wings have two brown transverse lines, the first indented above middle; the second line undulated, preceded by an interrupted line, and outwardly shaded with brown; terminal area brown.

Expanse, 28 millim.

Collection number, 1634.

Two male specimens from Kanshirei, May, 1908.

In the cotype the postmedial of fore wings is not black or followed by black dots on dorsum; the transverse lines on hind wings are obscured by fuscous shading. On the under side the postmedial line on all wings is black and outwardly shaded with black brown; this shading on hind wings extends almost to termen, inclosing five spots of the ground colour.

This species comes near *C. subexpressa*, Walk.

*Hydrelia* (?) *apicata*, sp. n.

♂. Head and thorax black brown, face browner; abdomen paler brown. Fore wings pale ochreous brown, finely sprinkled with darker; basal patch purplish brown, outer edge straight; postmedial line purplish brown, double, outwardly angled about middle, inwardly shaded with purplish brown; an oblique dark purplish brown line from costa one-fourth from apex to termen above middle, the line bifurcate on costa; terminal line purplish brown, inwardly angled before tornus. Hind wings pale ochreous brown, sprinkled with darker, discoidal dot black; termen narrowly edged with purplish brown, enclosing spots of ground colour. Fringes pale ochreous

brown mixed with darker brown. Under side ochreous brown with traces of the upper side markings.

Expanse, 25 millim.

Collection number, 646.

A male specimen from Kanshirei, August 20th, 1905.

Somewhat resembles *II. angularia*, Leech, but smaller.

*Gelasma rantaizanensis*, sp. n.

♀. All wings whitish with greenish suffusion, especially on the medial area up to the postmedial line; costa and termen ochreous; postmedial line white, serrated, almost straight and parallel with the termen; discoidal mark dusky, linear; fringes greenish white.

Expanse, 32 millim.

Collection number, 847 c.

A female specimen from Rantaizan, May 7th, 1909.

Allied to *G. glaucaria*, Walk., from which it differs in being paler in general colour; the antemedial line of fore wings is indistinct, and the postmedial line is straighter and nearer the termen; the termen itself is paler. On the hind wings the postmedial line is also nearer the termen, and is rather more sharply serrated.

*Geometra argentilineata*, sp. n.

♀. Head white, face and palpi ochreous, collar greenish brown; thorax and abdomen greenish. Fore wings green, costa narrowly ochreous; antemedial line silvery white, dentate teeth set inwards; postmedial line silvery white, crenulate; discoidal bar dusky; space between the transverse lines rather darker. Hind wings green, discoidal bar dusky, enclosing a silvery white streak; antemedial line silvery white, dentate teeth set inwards; postmedial line silvery white, crenulate, following contour of the termen. Fringes of all the wings greyish, preceded by silvery white points at ends of the veins. Under side whitish, faintly tinged with green, transverse lines traceable.

Expanse, 30 millim.

Collection number, 1620.

A female specimen from Arizan, August 16th, 1908.

Near *G. argutaria*, Walk.

I have a male specimen from Kanshirei, taken in August, 1908, which may be referable to *G. argentilineata*, but it is in such poor condition that its identity must remain doubtful.

NOTES AND OBSERVATIONS.

BANKIA ARGENTULA IN WICKEN FEN.—In reference to Mr. W. G. Sheldon's concluding paragraph on "Wicken Fen" (*antea*, p. 4), I may state that I had taken *B. argentula* in Wicken Fen before it had been turned up at Chippenham Fen. So that it was not into a "new